

**Notice of Allowability**

Application No.

10/033,978

Applicant(s)

MIN, KI TAE

Examiner

Art Unit

Sherrie Hsia

2614

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-19.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 8252004.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input checked="" type="checkbox"/> Other <u>See Continuation Sheet</u> .           |

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Richmond (Reg. No. 43044) on August 23, 2004.

The application has been amended as follows:

*Please amend paragraph 0032 on page 11 as follows:*

FIG. 2 is a block diagram illustrating the construction of a digital television receiver according to the present invention; and

*Please add the following new paragraph between paragraphs 0032 and 0033 on page 11:*

FIG. 2A is a block diagram illustrating another construction of a digital television receiver according to the present invention; and

*Please add the following new paragraphs between paragraphs 0036 and 0037 on page 13:*

As shown in FIG. 2A, the digital television receiver according to one embodiment includes a CPU 41 that is a control section for generating and outputting control signals according to a user's command for selecting a channel and a main/sub picture, an analog tuning section 32 for selecting an RF signal of an analog channel selected by the user among RF signals received through an antenna under the control of the CPU 41, and converting the selected RF signal into an IF signal, an analog/digital (A/D)-combined tuning section 33 for selecting an RF signal of an analog or digital channel selected by

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the user among the RF signals received through the antenna under the control of the CPU 41, a first analog video processing section 48 for processing the IF signal of the analog channel selected by the analog tuning section 32, a second analog video processing section 49 for processing the IF signal of the analog channel selected by the A/D-combined tuning section 33 in accordance with the main or sub picture selected by the user, a digital video processing section 50 for processing the IF signal of the digital channel selected by the A/D-combined tuning section 33 in accordance with the main or sub picture selected by the user, and an IF switching section 34 for being switched under the control of the CPU 41, and selectively outputting the IF signal outputted from the A/D-combined tuning section 33 to either the second analog video processing section 49 or the digital video processing section 50.

The second analog video processing section 49 may include an analog SAW filter 35 for filtering a desired analog channel band from the IF signal outputted through the IF switching section 34, an analog IF demodulating section 38 for demodulating the IF signal outputted from the analog SAW filter 35, and separating the demodulated IF signal into video and audio signals, and a video processing section 44 for processing the video signal in accordance with the main or sub picture selected by the user, and synthesizing the processed video signal with an output of the first analog video processing section 48 to output a synthesized video signal.

The digital video processing section 50 may include a digital SAW filter 36 for filtering a desired digital channel band from the IF signal outputted through the IF switching section 34, a digital IF demodulating section 39 for demodulating the IF signal outputted from the digital SAW filter, and outputting a demodulated signal in the form of a bit stream, and a digital decoder 40 for restoring the original video signal by decoding the bit stream in a reverse order to compression.

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2. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: A new sheet (Fig.2A) of drawings has been attached (see attachment). In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

3. The following is an examiner's statement of reasons for allowance: the prior art fails to show or fairly suggest a digital television receiver having the combinations as claimed, including a control section for generating and outputting control signals according to a user's command for selecting a channel and a main/sub picture, an analog tuning section for selecting an RF signal of an analog channel selected by the user among RF signals received through an antenna under the control of the control section, and converting the selected RF signal into an IF signal, **an analog/digital (A/D)-combined tuning section for selecting an RF signal of an analog or digital channel selected by the user among the RF signals received through the antenna under the control of the control section, a first analog video processing section for processing the IF signal of the analog channel selected by the analog tuning section in accordance with the main or sub picture selected by the user, a second analog video processing section for processing the IF signal of the analog channel selected by the A/D-combined tuning section in accordance with the main or sub picture selected by the user, a digital video processing section for processing the IF signal of the digital channel selected by the A/D-combined tuning section in accordance with the main or sub picture selected by the user, and an IF switching section for being switched under the control of the control section, and selectively outputting the IF signal outputted from the A/D-combined tuning**

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**section to either the second analog video processing section or the digital video processing section, as recited in the claims.**

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherrie Hsia whose telephone number is (703) 305-4738.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (703) 305-4795.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**Or faxed to:**

**(703) 872-9306**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office whose telephone number is (703) 308-HELP.



**Sherrie Hsia**  
**Primary Examiner**  
**Art Unit 2614**

SH  
August 25, 2004